

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION OF

HAYNES et al

Atty. Ref.: 1579-599

Serial No.: 09/960,717

Group Art Unit: 1648

Filed: September 24, 2001

Examiner: Stucker, J.

For: IMMUNOGEN

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April 28, 2003

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Hon. Commissioner of Patents
and Trademarks
Washington, DC 20231

Sir:

Supplemental to the Information Disclosure Statement
filed April 23, 2003, attached is Form PTO-1449 listing the
enclosed additional documents.

The Examiner's attention is directed to co-pending
U.S. Provisional Application No. 60/397,605, filed July 23,
2002, a copy of which is attached.

This IDS is intended to be in full compliance with the
rules, but should the Examiner find any part of its
required content to have been omitted, prompt notice to
that effect is earnestly solicited, along with additional
time under Rule 97(f), to enable Applicant to comply fully.

Given the payment made April 23, 2003, no further fee is believed to be required but if the Patent Office takes a different view, authorization is hereby given to debit the undersigned firm's Deposit Account No. 14-1140 (1579-599).

Consideration of the foregoing and enclosures plus the return of a copy of the herewith Form PTO-1449 with the Examiner's initials in the left column per MPEP 609 are earnestly solicited.

Respectfully submitted,

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INFORMATION DISCLOSURE
CITATION

ATTY. DOCKET NO.

SERIAL NO.

1579-599

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APPLICANT

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FILING DATE

GROUP

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U.S. PATENT DOCUMENTS

EXAMINER PATENT & TRADEMARK	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, etc.)

	Trkola et al, "Human Monoclonal Antibody 2G12 Defines a Distinctive Neutralization Epitope on the gp120 Glycoprotein of Human Immunodeficiency Virus Type 1", Journal of Virology 70(2):1100-1108 (1996)
	Mo et al, "Human Immunodeficiency Virus Type 1 Mutants That Escape Neutralization by Human Monoclonal Antibody IgG1b12", Journal of Virology 71(9):6869-6874 (1997)
	Ye et al, "Association of Structural Changes in the V2 and V3 Loops of the gp120 Envelope Glycoprotein with Acquisition of Neutralization Resistance in a Simian-Human Immunodeficiency Virus Passaged In Vivo", Journal of Virology 74(24):11955-11962 (2000)
	Fouts et al, "Neutralization of the Human Immunodeficiency Virus Type 1 Primary Isolate JR-FL by Human Monoclonal Antibodies Correlates with Antibody Binding to the Oligomeric Form of the Envelope Glycoprotein Complex", Journal of Virology 71(4):2779-2785 (1997)
	Sullivan et al, "CD4-Induced Conformational Changes in the Human Immunodeficiency Virus Type 1 gp120 Glycoprotein: Consequences for Virus Entry and Neutralization", Journal of Virology 72(6):4694-4703 (1998)
	Moore et al, "Exploration of antigenic variation in gp120 from clades A through F of human immunodeficiency virus type 1 by using monoclonal antibodies", Journal of Virology 68(12):8350-8364 (1994) – Abstract
	Jiang et al, "A Conformation-Specific Monoclonal Antibody Reacting with Fusion-Active gp41 from the Human Immunodeficiency Virus Type 1 Envelope Glycoprotein", Journal of Virology 72(12):10213-10217 (1998)
	Rimsky et al, "Determinants of Human Immunodeficiency Virus Type 1 Resistance to gp41-Derived Inhibitory Peptides", Journal of Virology 72(2):986-993 (1998)
	Earl et al, "Immunogenicity and Protective Efficacy of Oligomeric Human Immunodeficiency Virus Type 1 gp140", Journal of Virology 75(2):645-653 (2001)
	Collman et al, "An infectious molecular clone of an unusual macrophage-trophic and highly cytopathic strain of human immunodeficiency virus type 1", Journal of Virology 66(12):7517-7521 (1992) – Abstract
	Muster et al, "A conserved neutralizing epitope on gp41 of human immunodeficiency virus type 1", Journal of Virology 67(11):6642-6647 (1993) – Abstract
	Cormier et al, "Specific interaction of CCR5 amino-terminal domain peptides containing sulfotyrosines with HIV-1 envelope glycoprotein gp120", PNAS 97(11):5762-5767 (2000)
	Hoffman et al, "A biosensor assay for studying ligand-membrane receptor interactions: Binding of antibodies and HIV-1 Env to chemokine receptors", PNAS 97(21):11215-11220 (2000)
	Myszka et al, "Energetics of the HIV gp120-CD4 binding reaction", PNS 97(16):9026-9031 (2000)
	Roben et al, "Recognition properties of a panel of human recombinant Fab fragments to the CD4 binding site of gp120 that show differing abilities to neutralize human immunodeficiency virus type 1", Journal of Virology 68(8):4821-4828 (1994) – Abstract
	Muster et al, "Cross-neutralizing activity against divergent human immunodeficiency virus type 1 isolates induced by the gp41 sequence ELDKWAS", Journal of Virology 68(6):4031-4034 (1994) – Abstract
	Earl et al, "Native oligomeric human immunodeficiency virus type 1 envelope glycoprotein elicits diverse monoclonal antibody reactivities", Journal of Virology 68(5):3015-3026 (1994) – Abstract

*Examiner

Date Considered

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

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1579-599	09/960,717
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Filing Date	Group
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U.S. PATENT DOCUMENTS					
INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS

FOREIGN PATENT DOCUMENTS					TRANSLATION	
DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

Furuta et al. "Capture of an early fusion-active conformation of HIV-1 gp41". Nature Struct. Biol. 5:376 (1998)
LaCasse et al, "Fusion-Competent Vaccines Broad Neutralization of Primary Isolates of HIV", Science 283:357 (1997)
Boots et al, "Anti-Human Immunodeficiency Virus Type 1 Human Monoclonal Antibodies that Bind Discontinuous Epitopes in the Viral Glycoproteins Can Identify Mimotopes from Recombinant Phage Peptide Display Libraries", AIDS Research and Human Retroviruses 13(18):1549-1559 (1997)
Bieniasz et al, "HIV-1-induced cell fusion is mediated by multiple regions within both the viral envelope and the CCR-5 co-receptor", The EMBO Journal 16(10):2599-2609 (1997)
Wild et al, "Propensity for a leucine zipper-like domain of human immunodeficiency virus type 1 gp41 to form oligomers correlates with a role in virus-induced fusion rather than assembly of the glycoprotein complex", Proc. Natl. Acad. Sci. USA 91:12676-12680 (1994)
Collman et al, "An Infectious Molecular Clone of an Unusual Macrophage-Tropic and Highly Cytopathic Strain of Human Immunodeficiency Virus Type 1", Journal of Virology 66(12):7517-7521 (1992)
Alam et al, "T-cell-receptor affinity and thymocyte positive selection", Letters to Nature 381:616-620 (1996)
O'Shannessy et al, "Immobilization Chemistries Suitable for Use in the BiACore Surface Plasmon Resonance Detector", Analytical Biochemistry 205:132-136 (1992)
Mascola et al, "Immunization with Envelope Subunit Vaccine Products Elicits Neutralizing Antibodies against Laboratory-Adapted but Not Primary Isolates of Human Immunodeficiency Virus Type I", J. Infect. Dis. 173:340-348 (1996)
Rizzuto et al, "A Conserved HIV gp120 Glycoprotein Structure Involved in Chemokine Receptor Binding", Science 280:1949-1953 (1998)
Wyatt et al, "Involvement of the V1/V2 Variable Loop Structure in the Exposure of Human Immunodeficiency Virus Type 1 gp120 Epitopes Induced by Receptor Binding", Journal of Virology 69(9):5723-5733 (1995)

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INFORMATION DISCLOSURE CITATION

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Several sheets if necessary

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September

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Robertson et al, Recombination in AIDS Viruses, J. Mol. Evol. 40:249-259 (1995)
Shu et al, Helical Interactions in the HIV-1 gp41 Core Reveal Structural Basis for the Inhibitory Activity of gp41 Peptides, Biochemistry 39:1634-1642 (2000)

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